

Performance Management Scenarios

Preparing for New Algorithm

Background: ECS Release A system at the LaRC DAAC. The processing epoch is “reduced” production of CERES science products (i.e., between 3 and 6 months after TRMM launch). (Subsystems involved: MSS, DPS, DSS)

Manager	Analyst	System
Tells PA that PGEs for a new version of the CERES cloud subsystem (new clouds-during-night-time) will be executed daily beginning next Monday morning. The supervisor asks the PA to monitor this new subsystem closely and requests daily reports on the PGE’s performance.		

Performance Management Scenarios (cont.)

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Manager	Analyst	System
	The PA writes a script to gather and format key variables and email a daily performance report to him on the CERES specific PGEs. The PA specifies that the report be a compilation of statistics of the last 24 hours and that the report compilation be performed at 6am daily on the day after the PGE's run.	At 6am next Tuesday, the report is compiled and sent to the PA via email.

Performance Management Scenarios (cont.)

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<p>The supervisor reviews the report. She likes the statistics on each PGE run - the range of run times and system usages, and the summary information which shows the total resources used by these PGE executions. She also would like to know what percentage of the science processor capacity is being</p>	<p>PA logs in at 8am - reads email message containing report. PA reviews the report and takes it to his supervisor.</p>	

Performance Management Scenarios (cont.)

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Manager	Analyst	System
consumed by running these PGEs. She asks PA to include this info in the daily report.	<p>PA modifies the script to gather the additional information.</p> <p>PA logs in at 8am - reads email message containing report. The new information is included. PA takes the report to the supervisor.</p>	<p>At 6am, the report is compiled and sent to the PA via email.</p>

Performance Management Scenarios (cont.)

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The supervisor is pleased with the new report. She states that the disk activity is higher than she expected, and asks for a more detailed breakdown on this. She'd like to see more information on the specific files being used, their sizes, and the types of storage they are using.	Since this detail of information is not currently culled from the logs, the PA creates a script to extract the additional information from the logs and includes it in the report. Note: Historical log data may be retrieved from the Data Archive. Archived data may be retrieved over an operator-specified time period (e.g., for a specified day or week).	

Performance Management Scenarios (cont.)

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Manager	Analyst	System
<p>The supervisor is pleased with information being received and asks for it to be provided to her daily.</p>	<p>PA logs in at 8am - reads email message containing report. The new information is included. PA takes the report to the supervisor.</p> <p>PA modifies the script to add the supervisor to the email distribution.</p>	<p>At 6am, the report is compiled and sent to the PA via email.</p>